

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of recovering a dropped call in a mobile station, comprising the steps of:

determining whether two consecutive good frames have been received on a traffic channel that was disconnected to determine if the disconnected traffic channel has been recovered in relation to when the dropped call occurs;

searching an adjacent base station whose pilot signal arrives at the mobile station with a greater received signal strength using a searcher, while said determining step is performed the frame receipt is checked;

requesting a traffic channel, ~~at mobile station,~~ to the searched base station so that the traffic channel is assigned to the mobile station, using a physical channel used for a data transmission service;

~~assigning to the mobile station a traffic channel by the searched base station using a physical channel used for data transmission;~~

~~determining if a recovered traffic channel and the assigned traffic channel are available;~~
and

determining a first available traffic channel between a recovered traffic channel and the assigned traffic channel; and

resuming the call on the traffic channel that is first available between ~~one of~~ the recovered traffic channel and the assigned traffic channel.

2. (Original) The method of claim 1, wherein the traffic channels are fundamental channels.

3. (Currently Amended) The method of claim 1, wherein the physical channel for data transmission service is a supplemental channel.

4. (Currently Amended) The method of claim 1, wherein the physical channel for data transmission service is a common control channel.

5. (Currently Amended) A method of recovering a dropped call in a mobile station, comprising the steps of:

determining whether a predetermined number of good frames have been received on a traffic channel that was disconnected to determine if the disconnected traffic channel has been recovered in relation to when the dropped call occurs;

assigning to the mobile station a traffic channel by an adjacent base station with a greater received signal strength using a supplemental channel, while said determining step is performed ~~the frame receipt is checked;~~

~~determining if a recovered traffic channel and the assigned traffic channel are available;~~
and

determining a first available traffic channel between a recovered traffic channel and the assigned traffic channel; and

resuming the call on the traffic channel that is first available between ~~one of the~~ recovered traffic channel and the assigned traffic channel.

6-7. (Cancelled)

8. (Currently Amended) A method of recovering a dropped call in a mobile station, comprising the steps of:

awaiting recovery of the dropped call while ~~maintaining a physical channel established for the dropped call~~ determining whether two consecutive good frames have been received on a traffic channel that was disconnected when the dropped call occurs;

searching for an adjacent base station whose pilot signal arrives at the mobile station with a greater received signal strength using a searcher while the awaiting step is performed;

assigning to the mobile station a traffic channel by the searched base station using a physical channel used for data transmission service;

~~determining if a recovered traffic channel and the assigned traffic channel are available;~~
and

determining a first available traffic channel between a recovered traffic channel and the assigned traffic channel; and

resuming the call on the traffic channel that is first available between ~~one of~~ the recovered traffic channel and the assigned traffic channel.

9. (Currently Amended) The method of claim 8, wherein the physical channel for data transmission service is one of a supplemental channel and a common control channel.

10. (Currently Amended) A method of recovering a dropped call in a mobile station, comprising the steps of:

dropping a call after receipt of a first predetermined number of consecutive bad frames on a fundamental channel;

determining whether a second predetermined number of consecutive good frames have been received on the fundamental channel that was disconnected to determine if the disconnected traffic channel has been recovered in relation to when the dropped call occurs;

searching for an adjacent base station whose pilot signal arrives at the mobile station with a greater received signal strength using a searcher, while said determining step is performed; ~~the frame receipt is checked~~

acquiring system information by receiving and demodulating a sync channel from the searched base station;

requesting a traffic channel, ~~at mobile station~~, to the searched base station so that the traffic channel is assigned to the mobile station;

~~assigning to the mobile station a traffic channel by the searched base station;~~

~~determining if a recovered traffic channel and the assigned traffic channel are available;~~

and

determining a first available traffic channel between a recovered traffic channel and the assigned traffic channel; and

resuming the call on the channel that is first available between ~~one of~~ the recovered fundamental channel and the assigned traffic channel.

11. (New) A method of recovering a dropped call in a mobile station, comprising the steps of:

determining whether two consecutive good frames have been received on a traffic

channel that was disconnected in relation to the dropped call;

searching an adjacent base station whose signal arrives at the mobile station with a greater received signal strength using a searcher, while the frame receipt is checked;

requesting a traffic channel, at mobile station, to the searched base station;

assigning to the mobile station a traffic channel by the searched base station using a physical channel used for data transmission;

determining a first available traffic channel between a recovered traffic channel and the assigned traffic channel; and

resuming the call on the traffic channel that is first available between one of the recovered traffic channel and the assigned traffic channel.